

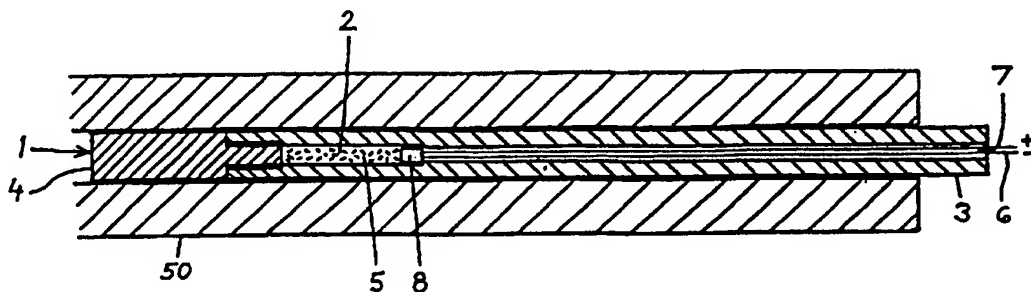
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(71)(72) Applicants and Inventors: LINDSKOG, Kjell [SE/SE]; Floravägen 27, S-931 39 Skellefteå (SE). FRISTRÖM, Ola [SE/SE]; Anumark 84, S-905 95 Umeå (SE).			
(74) Agent: HEDLUND, Alf; Patentkonsult Alf Hedlund AB, Kungsgatan 19, 5 tr, S-461 31 Trollhättan (SE).			

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(54) Title: ARRANGEMENT RELATING TO A WEAPON WITH A BARREL



(57) Abstract

The invention relates to a device and to a method for rendering useless a weapon that includes a barrel, in the event of the weapon being taken or manipulated unlawfully. The device (1) includes a rod (3) having a cavity or bore (2). The rod (3) is adapted for insertion into the barrel (50) of the weapon, and an explosive charge (5) is placed in the cavity (2) of the rod. When an alarm is triggered, the explosive agent (5) is activated and the rod (3) and the barrel (50) are deformed.

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ARRANGEMENT RELATING TO A WEAPON WITH A BARREL

The present invention relates to a device and to a method for rendering a weapon that includes a barrel useless if
5 misappropriated or manipulated unlawfully.

One object of the present invention is to provide a device and a method for destroying a weapon in conjunction with its misappropriation and unlawful manipulation. This object is
10 achieved with the device and the method defined in the characterizing clauses of respective Claims.

Because the inventive device will result in such damage to the weapon if misappropriated and used unlawfully as to make
15 it extremely difficult and troublesome to repair the weapon, the inventive device is a highly effective theft deterrent.

The device can be combined with many different types of alarm devices that generate an alarm signal which causes activation
20 of the inventive device and therewith destruction of the weapon.

The inventive device has both technical and economical advantages.

25 The invention will now be described in more detail with reference to an exemplifying embodiment thereof and also with reference to the accompanying drawing, in which Fig. 1 illustrates schematically a barrel of a weapon provided with
30 an inventive device; and Fig. 2 illustrates the device and the barrel subsequent to activation of the device.

The inventive device, referenced 1, includes a metal rod 3 that has a cavity or bore 2. The rod 3 has a shape and size which enables the rod to be inserted in, and fitted in, a barrel 50 of the weapon concerned, as evident from Fig. 1.

5 One end of the cavity 2 is restricted or blocked by a plug 4. The cavity 2 is filled with an explosive substance 5, such as pentyl. An electric ignition wire 6 is extended to an electric igniter 8 in contact with the explosive substance 5, as evident from Fig. 1. A hole or bore 7 is provided for

10 accommodation of the ignition wire 6.

The inventive device 1 functions in the following way. The ignition wire 6 forms part of an alarm circuit (not shown) of suitable design. When an alarm is triggered as a result of

15 attempting to steal the weapon for instance, current is supplied to the ignition wire 6 and thus to the igniter 8, such as to explode the explosive substance 5. The explosive power of said substance is sufficient to partially expand and therewith deform the rod 3 and the barrel 50, as illustrated

20 in Fig. 2. The inventive device thus functions to seriously damage the weapon when activated. The explosion also causes the rod 3 to fuse or weld to the barrel 50, so as to render removal of the rod practically impossible.

25 It will be understood that the structural components of the inventive device can vary widely within the scope of the invention. For instance, the cavity 2 may be replaced with one or more recesses or apertures of some other type and shape.

The explosive substance may also be replaced with alternative explosive means and the hole or bore 7 may be plugged to enhance the effect of the explosion.

- 5 The invention is therefore not restricted to the illustrated and described embodiment, since changes and modifications are conceivable within the scope of the following Claims.

CLAIMS

1. A device for rendering useless a weapon that includes a barrel, when the weapon is taken or manipulated unlawfully,
5 **characterized** in that the device (1) includes a rod (3) that has a cavity or bore (2); in that the rod (3) is adapted for insertion into the barrel (50) of the weapon; and in that the cavity (2) or bore in said rod accommodates an explosive charge (5).

10

2. A device according to Claim 1, **characterized** in that the wall of the rod (3) is relatively thin in the region in which the explosive charge (5) is placed, so as to enable radial deformation of the rod (3) and the barrel (50).

15

3. A device according to Claim 1 or 2, **characterized** in that the explosive charge is pentyl or some like explosive substance.

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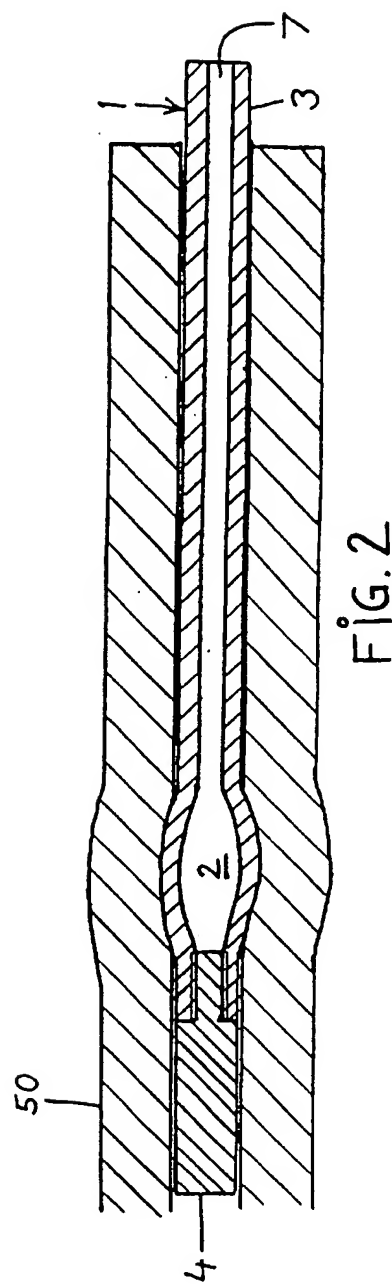
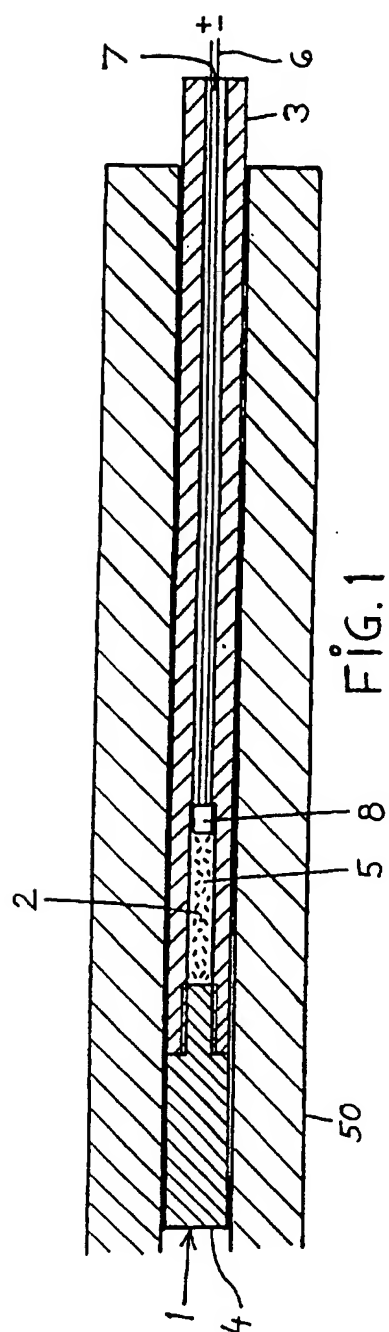
4. A method of rendering useless a weapon that includes a barrel, when the weapon is taken or manipulated unlawfully, **characterized** by using a device (1) which functions to render the weapon useless with the aid of an explosive charge (5) or the like in conjunction with an alarm being triggered.

25

5. A method according to Claim 4, **characterized** in that both the device (1) and the barrel (50) of the weapon are deformed in response to an alarm being triggered.

30

6. A method according to Claim 4 or 5, **characterized** in that at least a part of the device (1) is placed in the barrel (50) of the weapon.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 97/01236

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: F41A 17/44

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: F41A

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SE 503762 C2 (R. BOGSTRÖM), 26 August 1996 (26.08.96), page 1, line 19 - page 2, line 10, figure 1 --	1-6
A	FR 2635581 A1 (SCHNEIDER, P.), 23 February 1990 (23.02.90), figure 2, abstract --	1,4
A	WO 9206345 A1 (PIP INDUSTRIAL SERVICES PTY. LTD.), 16 April 1992 (16.04.92), figure 1, abstract --	1,4
A	DK 9400151 U3 (FIRMA TIGERBELT V/BERNT HANSEN), 8 July 1994 (08.07.94), figure 2, abstract --	1,4

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 ☒ See patent family annex.

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Box 5055, S-102 42 STOCKHOLM
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Authorized officer

Filip von Friesendorff
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INTERNATIONAL SEARCH REPORT
Information on patent family members

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DK	9400151	U3	08/07/94	NONE		
